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POOL & SPA HEATERS

COMFORT FOR  
**EVERY<sup>ONE</sup>**  
FROM THE NEW DEGREE OF COMFORT



RHEEM DIGITAL POOL & SPA HEATER



INTEGRATED HOME COMFORT

Rheem.com

# RHEEM DIGITAL GAS HEATER



## Microprocessor-Controlled Thermostat

Spa Set 104F  
Heating

The Rheem Digital gas heater is equipped with a microprocessor-based control. This control allows you to set your pool and spa temperature precisely at your preferred setting just by pressing an up or down temperature control button. The digital display tells you when the water is being heated and notifies you when your target temperature has been reached.

## Self-Diagnostic

Spa Set 104F  
Sensor Failure

Troubleshooting a Rheem gas heater has never been easier. The Rheem Digital has on-board diagnostic controls that let the user and the service professional know what is going on with the heater at all times. The display uses real English, with no cryptic codes to decipher.

## Remote-Compatible

Remote Pool 104F  
Water Temp 69F

The Rheem Digital is compatible with most major pool control and remote systems on the market today. Any two- or three-wire remote can connect to the Rheem Digital and be integrated into the pool control system of your choice. The display clearly shows the heater is under control of a remote system.

## Run Time and Cycle Meter

Run Time 100h  
Cycles 134

Yet another industry first, the Rheem pool heater can report how long it has run and how many times it has fired. This is valuable feedback for the service professional. Multi-unit installations can monitor the run time of each unit and balance out the duty load, thus avoiding over working one individual heater.

## Flame Strength Indicator

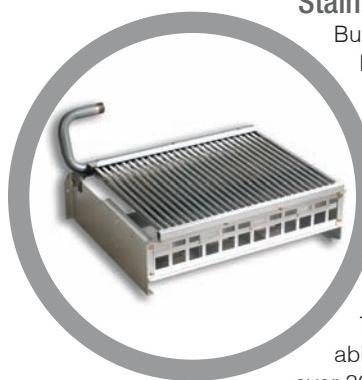
Flame Strength  
8 Good

Rheem leads the way with the first control in the pool industry to monitor and measure the pilot flame signal. Known for our high quality, leading edge commercial boilers, it just made sense for Rheem to use this existing commercial technology on our residential pool heaters. Rheem also uses this function on the end of line test, making sure every heater leaves with a robust flame signal.

## On Board Voltmeter

SUPPLY Voltage  
28.2

The Rheem Digital monitors the low voltage electrical supply. This helps ensure the heater is wired properly during installation. The heater will also let you know if the voltage has dropped too low to function properly. No other pool heater takes care of you like a Rheem.



## Stainless Steel Burners

Burner design is a critical component in any gas heater. The stainless steel burner system used in the Rheem Digital is inherently forgiving and extremely robust. The burner is self-adjusting to compensate for gas pressure fluctuations, meaning the heater will always burn clean and safe.

## Smooth Light Off

The soft-opening gas valve ensures smooth turn-on; no "Hard Light" to worry about. Easily removable burner tray and pilot assembly make service and maintenance a simple task.

## Pilot Ignition

The Rheem Digital uses a spark-to-pilot ignition system. This is the most reliable and robust ignition system available—an industry proven standard for over 30 years.

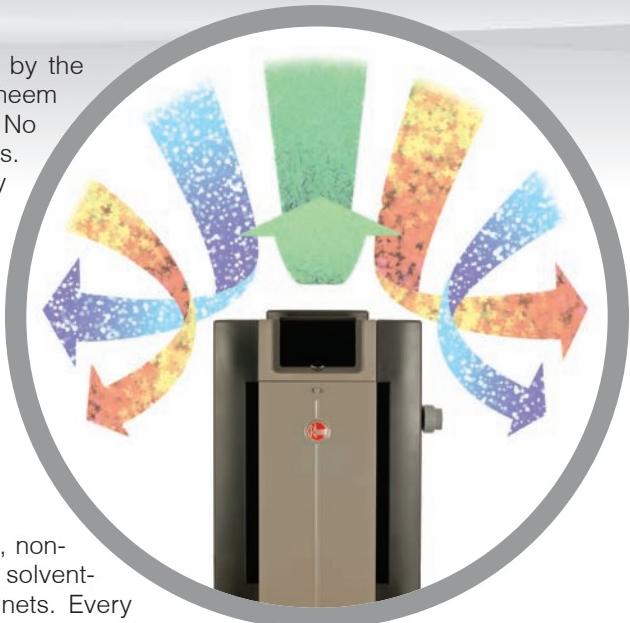
## POOL & SPA HEATERS



Model	BTUH Input
206	199,500
266	266,000
336	332,500
406	399,000

## Wind-Resistant Design

Performance and reliability are enhanced by the "pagoda top," designed to keep the Rheem Digital operating even in windy conditions. No need for fans to combat drafting problems. This heater is engineered to draft naturally in outdoor installations with its exclusive low-profile design. It is so thoughtfully and carefully constructed that it actually protects itself from the things that tend to stifle ordinary pool and spa heaters. It delivers uninterrupted heating performance regardless of falling leaves, wind, airborne debris, rain, downdrafts, updrafts, sleet, snow, etc.

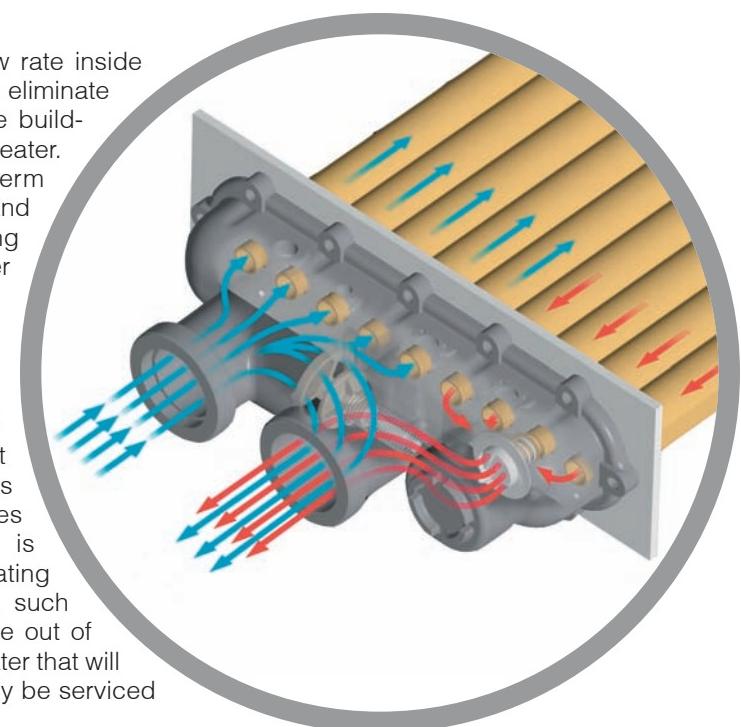


## PolyTuf Textured Powder Coating

The Rheem Digital has a polyester-coated, non-corrosive cabinet that is more durable than solvent-borne and waterborne-coated metal cabinets. Every piece of sheet metal goes through a 7-stage wash system, making certain the powder paint has a perfect bond. Underneath the tough, yet beautiful finish, you will find galvanized metal that offers superior rust prevention for years of durable service.

## Condensation-Free Operation

Both water temperature and flow rate inside the heater are controlled to help eliminate condensation, sooting and scale build-up that can shorten the life of a heater. Rheem engineered the Unitherm Governor specifically for pool and spa heater applications, regulating low temperature incoming water to help reduce condensation.



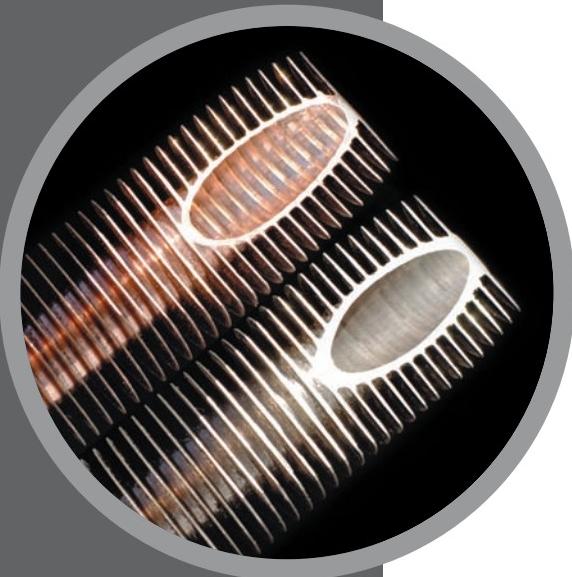
## Rust-Free Waterways

The Rheem Digital is equipped with polymer headers and an integral copper fin tube heat exchanger built with stainless steel tube sheets. This ensures rust-free performance, which is especially important when heating spas. Even the smallest details, such as the studs and nuts, are made out of stainless steel. The payoff? A heater that will last year after year and can easily be serviced if the need should ever arise.

**QUALITY • RELIABILITY • COMFORT**



# Options



## Copper Fin Tube

The Rheem Digital is built to last with the highest quality integral copper fin tube available. Copper is well known for its ability to transfer heat efficiently, and is an excellent choice for pool and spa heater heat exchangers, where the water chemistry is properly maintained.

## Cupro-Nickel Fin Tube

Rheem heaters are available with an optional cupro-nickel fin tube heat exchanger for added protection against aggressive water chemistry, which has been known to attack copper heat exchangers and cause premature failure. Cupro nickel's major advantage over standard copper is that it's more tolerant of bad water chemistry and is more resistant to erosion, thanks to a much harder surface and a wall that is approximately 50% thicker. When you are unsure of your ability to maintain the pool or spa water chemistry, a cupro-nickel heat exchanger is a cost-effective way to protect against premature failure.



## D-2 Power Vent

Rheem offers an optional power vent feature. Sometimes, equipment rooms or unusual venting configurations require the use of a power vent. Being the heater experts, we have this option for you when the need may arise.

## Through-the-Wall Capable

The D-2 Power Vent assembly is a Category III mechanical draft venting system that operates under a positive static pressure that prevents excessive condensate production in the vent. All sizes are capable of relieving flue gases up to a maximum of 100 equivalent feet of vent length. All models have a standard 4" diameter exhaust connection.

## Multi-Position

Using the Rheem-supplied adjustable 90° elbow, the flue gases may be discharged in any direction (see D-2 Power Vent manual for details). The D-2 Power Vent is also dual-voltage capable (120/240 volt) and engineered for long life and smooth operation.



THE NEW DEGREE  
OF COMFORT™

For dimensions and technical specifications,  
see catalog number MKG-15-1505.

In keeping with its policy of continuous progress and product improvement,  
Rheem reserves the right to make changes without notice.



***The Pool and Spa Heating  
Experts<sup>SM</sup>***



# **Raypak Digital**

## **Pool and Spa Heater**

# The Rayp

## Digital Control

### Micropocessor-Controlled Thermostat

Spa Set 104F  
Heating

The Raypak Digital gas heater is equipped with a microprocessor-based control. This control allows you to set your pool and spa temperature precisely at your preferred setting just by pressing an up or down temperature control button. The digital display tells you when the water is being heated and notifies you when your target temperature has been reached.

Spa Set 104F  
No Demand



### Self-Diagnostic

Spa Set 104F  
Sensor Failure

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Spa Set 104F  
No Pilot Sensed

### Remote-Compatible

Remote Pool 104F  
Water Temp 69F

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### Run Time and Cycle Meter

Run Time 100h  
Cycles 134

Yet another industry first, the Raypak pool heater can report how long it has run and how many times it has fired. This is valuable feedback for the service professional.

Multi-unit installations can monitor the run time of each unit and balance out the duty load, thus avoiding over working one individual heater.

### Flame Strength Indicator

Flame Strength  
8 Good

Raypak leads the way with the first control in the pool industry to monitor and measure the pilot flame signal. Known for our high quality, leading edge commercial boilers, it just made sense for Raypak to use this existing commercial technology on our residential pool heaters. This little tool is a service tech's dream. Raypak also uses this function on the end of line test, making sure every heater leaves with a robust flame signal.

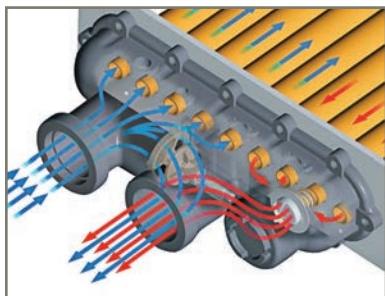
### On Board Voltmeter

SUPPLY Voltage  
28.2

The Raypak Digital monitors the low voltage electrical supply. This helps ensure the heater is wired properly during installation. The heater will also let you know if the voltage has dropped too low to function properly. No other pool heater takes care of you like a Raypak.

Spa Set 104F  
Low Voltage

## Heat Exchanger



### Condensation-Free Operation

Both water temperature and flow rate inside the heater are controlled to help eliminate condensation, sooting and scale buildup that can shorten the life of a heater. Raypak engineered the Unitherm Governor specifically for pool heater applications, regulating low-temperature incoming water to help reduce condensation. The built-in automatic bypass helps prevent scaling and erosion by balancing the flow going into the heat exchanger.

### Rust-Free Waterways

The Raypak Digital, with polymer headers, is equipped with an integral copper finned-tube heat exchanger and stainless steel tube sheets. Even the smallest details such as the studs and nuts are made out of stainless steel. The payoff? A heater that will last year after year and can easily be serviced if the need should ever arise.

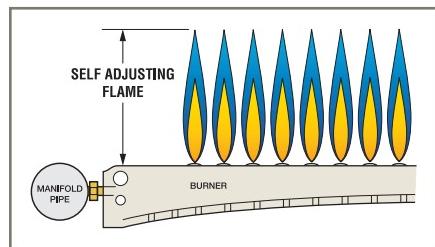
## Burners

### Stainless Steel Burners

Burner design is a critical component in any gas heater. The stainless steel burner system used in the Raypak Digital is inherently forgiving and extremely robust. The burner is self-adjusting to compensate for gas pressure fluctuations, allowing the heater to always burn clean and safe.

### Smooth Light Off

The soft-opening gas valve ensures smooth turn-on; no "Hard Light" to worry about. The easily removable burner tray and pilot assembly make service and maintenance a simple task.



### Pilot Ignition

The Raypak Digital use a spark-to-pilot ignition system. This is the most reliable and robust ignition system available—an industry proven standard for over 30 years.

# ak Digital

## The right tube for the right application

### Copper Fin Tube - Residential

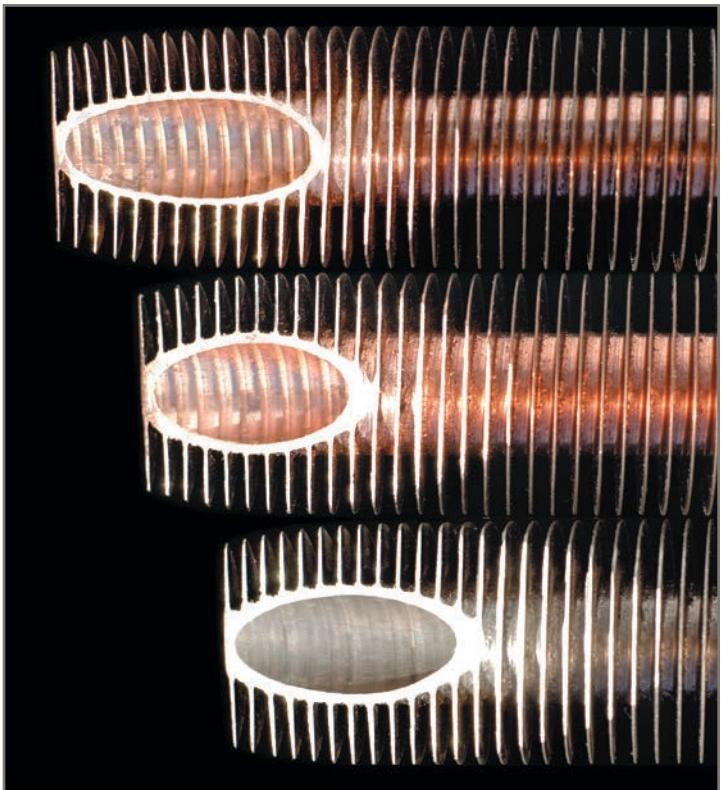
The Raypak Digital is built to last with the highest quality integral copper fin tube available. Copper is well known for its ability to efficiently transfer heat, and is the first choice for pool and spa heat exchanger construction. Pure copper has stood the test of time as the industry standard for efficiency, quality and product life.

### ASME Copper Fin Tube - Commercial

The Raypak Digital ASME is designed specifically to meet State and local code requirements for public pools and commercial applications. This heater is equipped with a thicker walled fin tube allowing it to meet the ASME certification requirements.

### Cupro-Nickel Fin Tube - Specialty

Raypak Digital heaters can be ordered with cupro-nickel fin tube heat exchangers for added protection against aggressive water chemistry. Although rare, there are certain applications, like health club spa's, where copper is just not the best choice. Cupro-nickel offers superior tolerance to bad and fluctuating water chemistry, thanks to a harder surface and a thicker walled fin tube.



## ASME



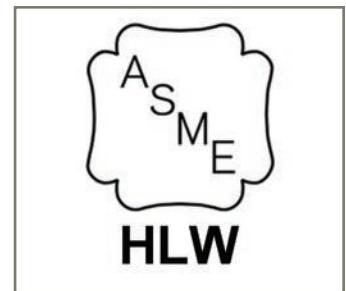
### On-site state inspectors



### Cast iron headers

### ASME

The Raypak Digital heater is also available in an optional ASME version. Raypak has state inspectors on-site daily performing certifications for our pool heater and commercial boiler production that may require ASME. Being in the boiler business for over 50 years truly makes Raypak the leader for your commercial needs. Why ASME? Most local codes require that public pools, pools that are in condominiums, apartments, or other commercial applications, be ASME certified. ASME stands for American Society of Mechanical Engineers, a non-profit group which sets many industrial and manufacturing standards. A pool heater that is made to ASME standards must perform to a set of specifications as determined by ASME, specifically in relation to the operating water pressure the appliance can handle. Each and every ASME heat exchanger that goes into a Raypak heater is certified by a state inspector to make sure it complies with all ASME codes for pool heaters.



### Glass-Lined Cast Iron Headers

Raypak has applied its years of commercial boiler experience to the design of the cast iron glass-lined header. A metal header design allows for the higher working pressures required by ASME. Only after the material meets the stress analysis and metal composition tests is it approved for use in an ASME unit.

# Anything But Basic

## Cabinet

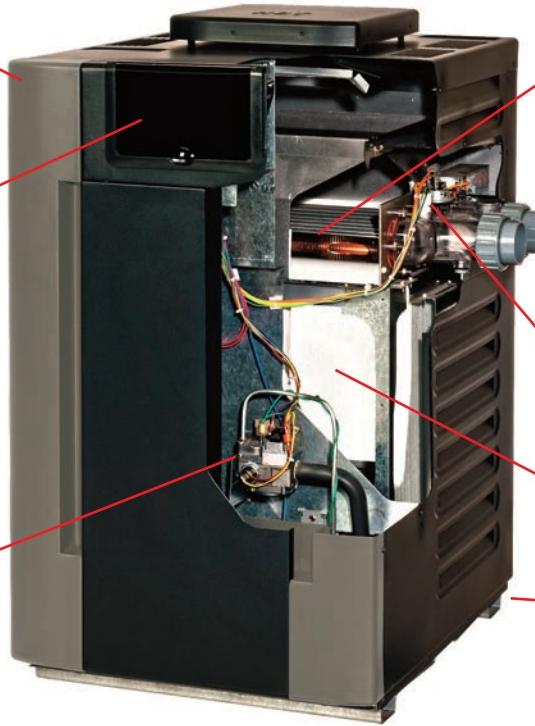
- Outdoor top - (standard)
- Wind-resistant design
- Channels rainwater out
- Textured powder-coat finish
- Optional indoor top

## Digital Controls

- Microprocessor-controlled
- Built-in diagnostics
- Back-lit LCD display
- Pool and spa settings
- Lexan cover- with snap closure
- Remote-compatible
- Flame strength meter
- Cycle and run time log
- Transformer output monitor
- Fault history-last 10

## Burner Tray

- Easily removable
- Stainless steel burners
- Brass orifices
- Aluminized metals
- Stainless steel heat shield
- Spark-to-pilot ignition
- Soft-opening gas valve



## Heat Exchanger

- Integral copper fin tube - (standard)
- Automatic bypass
- Unitherm governor
- Polymer headers
- Stainless steel tube sheet
- Reversible for left-side water connections.
- ASME - (optional)
- Cupro-nickel - (optional)

## 2" CPVC Connections

## High Limits and Controls

- Mounted on the in/out header

## Ceramic Fiber Combustion Chamber

## Non-Combustible Base

- Heater can be installed on a combustible surface

## 120/240V

- Incoming power can be connected to the right or left side.

Model	BTUH Input
206	199,500
266	266,000
336	332,500
406	399,000

## Optional D-2 Power Vent

### D-2 Power Vent

Sometimes, equipment rooms or unusual venting configurations require the use of a power vent. Being the heater experts, we have this option for you when the need may arise.

### Through-the-Wall Capable

The D-2 Power Vent assembly is a Category III mechanical draft venting system that operates under a positive static pressure and prevents excessive condensate production in the vent. All sizes are capable of relieving flue gases up to a maximum of 100 equivalent feet of vent length. All models have a standard 4"-diameter exhaust connection.

### Multi-Position

Using the Raypak-supplied adjustable 90° elbow, the flue gases may be discharged in any direction (see D-2 Power Vent manual for details). The D-2 Power Vent is also dual-voltage capable (120/240 volt) and engineered for long life and smooth operation.



**D-2 Power Vent**

**For dimensions and technical specifications, see catalog number 6000.35.**

In keeping with its policy of continuous progress and product improvement, Raypak reserves the right to make changes without notice.



**Raypak, Inc.** 2151 Eastman Avenue, Oxnard, CA 93030, (805) 278-5300. Fax (800) 872-9725

[www.raypak.com](http://www.raypak.com)





*The Pool and Spa Heating Experts<sup>SM</sup>*

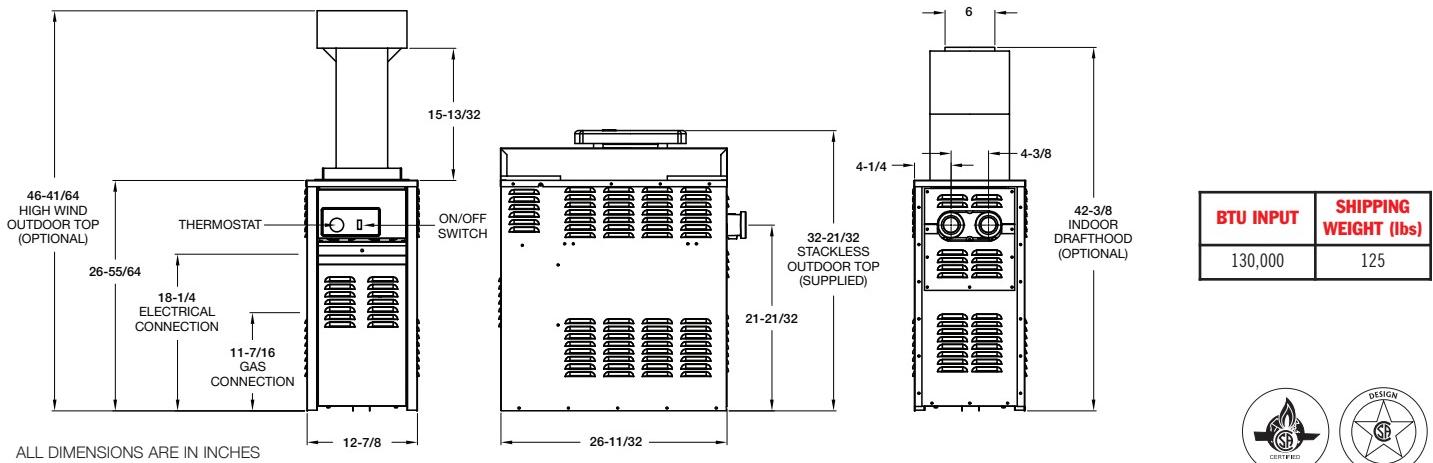


# **Raypak Versa 130**

## **Pool and Spa Heater**

# Technical Data

## Raypak Versa 130 Gas Heater



An electronic heater using propane gas is "EP"; an electronic heater using natural gas is "EN". A Millivolt heater using propane gas is "MP"; a Millivolt heater using natural gas is "MN". Prefix "P" is for plastic (polymer) headers. Suffix "X" is for cupro-nickel tubing; "C" is for copper tubing. Example: P-R130A-EN-X = Plastic headers, 130 model size, electronic ignition, natural gas, cupro-nickel

## Versa 130 Standard Features

### All models

- PolyTuf Textured Powder Coating**

The Raypak gas heater has a polyester-coated, non-corrosive cabinet that is more durable than solventborne- and waterborne-coated metal cabinets. Every piece of sheet metal goes through a 7-stage wash system, making certain the powder paint has a perfect bond. Underneath the tough, yet beautiful finish you will find galvanized metal that offers superior rust prevention and years of durable service.

- Wind-Resistant Design**

No need for fans to combat drafting problems. This heater is designed to draft naturally in outdoor installations with its exclusive low-profile design. It is so thoughtfully and carefully designed it actually protects itself from the things that tend to stifle ordinary pool and spa heaters. It delivers uninterrupted heating performance regardless of falling leaves, wind, airborne debris, rain, downdrafts, updrafts, sleet, snow, etc.

- Polymer Headers**

Polymer headers prevent rust stains from harming your pool or spa's surface, giving you years of trouble-free swimming pleasure.

- All-Copper-Fin-Tube Heat Exchanger**

The fin tubes of the heat exchanger are each made from a single piece of extruded copper. This integral-fin design allows maximum heat transfer to be attained and maintained. Cupro-nickel is also available as an optional upgrade.

- Stainless Steel Tube Sheet**

Stainless steel tube sheets are used on all Raypak gas heaters. This allows for a completely nonferrous waterway, leaving your pool truly rust-free.

- 2" Water Connections**

Supplied with every Raypak heater is a set of 2" PVC connections to make your installation secure and effortless.

- Burner Tray**

Every burner tray is built to last, from the stainless steel burners to the aluminized metal used in the heat sensitive areas. Innovative design allows for the easy removal of the tray and burners for servicing.

- Fire Tile**

A ceramic fiber combustion box keeps your heater running efficiently while keeping the outside jacket cool. By using this space-age material the heater won't retain residual heat after it is turned off, allowing it to be installed without the use of costly metal heat sinks.

- Fuel-Efficient**

Energy-smart Raypak heaters consistently achieve the highest efficiency ratings. They exceed all federal and state standards.

### Electronic ignition models only

- Electronic Ignition**

Raypak electronic ignition heaters come standard with direct spark ignition flame safety controls. What this means is that the heater only comes on when there is a call for heat. This provides an energy-efficient way to control your heater's gas usage by eliminating the need for a continuous pilot.

- Dual Voltage 120/240v**

The Raypak electronic heater can easily be hooked up to 120v power via its own 3-1/2 foot built in power cord with 3-prong plug. It can also be wired for use with a conduit connection, this allows the installer to wire 120/240v directly to the transformer. No other small heater offers you this much flexibility.

### Millivolt models only

- Mechanical Thermostat**

The Raypak millivolt gas heater comes with one mechanical thermostat. This control allows you to set your pool or spa temperature precisely at your favorite setting.

- Millivolt Controls**

No power source is required for the Raypak Millivolt heater. All operating electricity is supplied by the pilot thermocouple.

### Quality assurance

- ISO 9001**

We are proud to be an ISO 9001 registered manufacturing plant. It's one more reason why Raypak is number one in the heater industry today.

- End-of-Line Test**

Every Raypak gas pool heater is plumbed and test-fired before it is put in the carton. This ensures that your heater will work right out of the box and continue to give you years of trouble-free operation.

- Quality Check Points**

The Raypak assembly process includes six final assembly quality check points that help to ensure that every Raypak gas heater is built correctly, and built to last.

- CSA-Certified**

All of Raypak's gas pool heaters are CSA-certified and are tested by CSA to the ANSI Z21.56 standard.

In keeping with its policy of continuous progress and product improvement, Raypak reserves the right to make changes without notice



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## Swimming Pool and Spa Heating Products

